

APPENDIX D

WORKLOAD OUTPUT

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 1. Air Toxicology and Epidemiology Section: Toxic Air Contaminants (Including Children's Health)

Existing Position(s)	Current Workload Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Senior Toxicologist 5.0 Staff Toxicologist 1.0 Associate Toxicologist 1.0 Research Scientist II 1.0 Public Health Medical Officer II	<p>Beginning 2005, annually evaluate up to 10 existing toxic air contaminants, provide threshold exposure levels and nonthreshold health values, specifically protective for infants and children</p> <p>Beginning 2005, prepare report amending the list of TACs that may disproportionately impact children/year.</p> <p>Based on past five years, able to develop 0.2 health effects assessments including quantitative risk assessment for candidate TAC/year.</p> <p>Provide technical support to ARB for listing and control measure development.</p>	1.0 Senior Toxicologist 5.0 Staff Toxicologist 3.0 Associate Toxicologist 1.0 Research Scientist II 1.0 Public Health Medical Officer II \$360K/yr contract funds for specialty literature searches and scientific symposia.	<p>Beginning 2004, annually evaluate at least 15 existing toxic air contaminants, provide threshold exposure levels and nonthreshold health values, specifically protective for infants and children (HSC 39669.5 (c)).</p> <p>Beginning 2004, prepare annual report amending the list of TACs that may disproportionately impact children/yr (HSC 39669.5 (c)).</p> <p>Develop 0.5-1 health effects assessments including quantitative risk assessment for candidate TAC/yr. This is to address the current backlog of 18 candidate Toxic Air Contaminants to be evaluated (HSC 39660).</p> <p>Provide technical support to ARB for listing and control measure development (HSC 39660, HSC 39665).</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 2. Emerging Scientific/Chemical Issues: Fuels Assessment (Including Children's Health)

Current Position(s)	Current Workload Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Public Health Medical Officer II	Evaluate impact of emissions on air pollutants, including ozone forming compounds, particulate matter, toxic air contaminants, and greenhouse gases for motor vehicle fuel. Current level of effort is to conduct one study every 5-6 years. This may result in adopting a new fuel regulation prior to full understanding of the health implications of an existing regulation	1.0 Public Health Medical Officer II 1.0 Associate Toxicologist 2.0 Research Scientist II	Evaluate impact of emissions on air pollutants, including ozone forming compounds, particulate matter, toxic air contaminants, and greenhouse gases for motor vehicle fuel (HSC 43830.8 (b)). The ARB will likely be requesting OEHHA to evaluate 6 fuel additives or minor reformulations per year, and one major reformulation per year, which will require a more intensive analysis. Reasonable level of effort would be to conduct one study every 2-3 years in order to complete 1 to 2 studies on an existing vehicle fuel prior to adoption of a new fuel regulation.

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 3. Air Toxicology and Epidemiology Section: Criteria Air Pollutants (Including Children's Health)

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Research Scientist Supervisor II 2.0 Research Scientist II 0.5 Research Scientist I	Develop 1 health recommendation report every 2-3 years for an Ambient Air Quality Standard that is protective of infants and children. This is being conducted without the input of a physician to assure protectiveness of children. Conduct 1 epidemiological investigation every five years, to assess exposure patterns, special susceptibility, and interaction of multiple air pollutant on infants and children.	1.0 Research Scientist Supervisor II 3.0 Research Scientist II 0.5 Research Scientist I 1.0 Staff Toxicologist 2.0 Public Health Medical Officer II \$250K/yr contract funds to plan, design, and conduct epidemiology studies.	Develop recommendations for Ambient Air Quality Standards, including report on health impacts, for at least 1 criteria air pollutant per year that is protective of infants and children (HSC 39606). Statute requires OEHHA to assess the following factors for infants and children: exposure patterns, special susceptibility, and interaction of multiple air pollutant (HSC 39606 (b)). Conduct 1 epidemiological investigation every 2 years to fill data gaps needed to properly assess exposure patterns in California, special susceptibility, and interaction of multiple air pollutant in California on infants and children. This is considered a reasonable level of effort to fill data gaps needed to be addressed for Ambient Air Quality Standards (HSC 39606, 39606 (b)).

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 4. Air Toxicology and Epidemiology Section: Air Toxic Hot Spots Act and Exposure Assessment (Including Children's Health)

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Senior Toxicologist 2.0 Staff Toxicologist 1.0 Associate Toxicologist 1.0 Research Scientist II	<p>Update risk assessment guidelines every 5 years to incorporate new information on health effects, exposure assessment and infants and children.</p> <p>Review 2-5 health risk assessments per year for hot spot facilities.</p> <p>Provide technical assistance to the Air Pollution Control Districts and ARB to interpret 5-10 risk assessments and 0 trainings per year.</p>	1.0 Senior Toxicologist 2.0 Staff Toxicologist 1.0 Associate Toxicologist 2.0 Research Scientist II 1.0 Research Scientist I \$90K/yr contract funds for specialty literature searches.	<p>Under the Toxic Air Contaminant laws, OEHHA is required to assess exposure patterns of infants and children, special susceptibilities to TACs for infants and children, and effects of exposure to multiple air contaminants on infants and children (HSC 39669.5(a)). The AIR Toxics Hot Spots Act requires facilities to conduct risk assessments for airborne emissions of TACs using OEHHA guidelines. Update risk assessment guidelines to ensure adequate assessment of risks to infants and children every two years to incorporate the rapidly evolving scientific information on health effects and exposure assessment for infants and children (HSC 44360).</p> <p>Historically have reviewed 5 to 10 health risk assessments per year for hot spot facilities (HSC 44361).</p> <p>Provide technical assistance to the Air Pollution Control Districts and ARB to interpret 10-50 risk assessments and 2 trainings per year (HSC 44361). The exact number of risk assessments received depends on many unpredictable factors. The air</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 4 (concluded). Air Toxicology and Epidemiology Section: Air Toxic Hot Spots Act and Exposure Assessment (Including Children's Health)

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
			Districts predict that a minimum, OEHHA will need to review more than 15 per year over the next several years (So. Coast Air District is expecting 50 reviews). As the economy continues to improve, risk assessment reviews will increase due to facility expansions. Also, the number is likely to increase as the diesel cancer risk number is applied by more air Districts.

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 5. Air Toxicology and Epidemiology Section: Indoor Air

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Staff Toxicologist 1.5 Research Scientist I	Develop 1 indoor air RELs per year. Review 1 indoor air document per year. Address 10-30 ARB and public inquiries per year. Provide technical support to ARB and CIWMB on indoor air risk assessment.	1.0 Staff Toxicologist 1.0 Associate Toxicologist 1.5 Research Scientist II	Based on historical requests, develop 3 indoor air RELs per year (HSC 39660.5(d)) in evaluating indoor air quality and by CIWMB (Public Resources Code Section 42642; Executive Orders D-16-00 and S-20-04) in evaluating environmentally preferable products and ensuring healthy indoor environments while maximizing use of recycled materials in building products. Review 2 indoor air documents per year. Address 10-30 ARB and public inquiries per year. Provide technical support to ARB and CIWMB on indoor air risk assessments (HSC 39660.5).

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 6. Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Community Health Investigations

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.1 Research Scientist Supervisor I 0.4 Public Health Medical Officer III	<p>In 2003, began developing standardized criteria, guidelines, and protocols for conducting community pesticide exposure surveys and epidemiological studies. These evolve slowly because of diminished staffing and resources, specifically in epidemiology. These protocols are to provide a public health approach to community pesticide exposure episodes, while DPR focuses on regulatory compliance and enforcement. These approaches require complimentary effort and coordination to assure clarity of purpose.</p> <p>Because of budget and staffing reductions over the last few years, OEHHA has greatly reduced the level of epidemiologic and medical consultation support to local health officers and communities affected by pesticide drift episodes and other pesticide exposure events. With a diminished level of staffing, OEHHA has reduced the level of medical and epidemiological analysis on illness reports and reviews only the most egregious events.</p>	<p>0.1 Research Scientist Supervisor I 0.5 Public Health Medical Officer III 0.15 Public Health Medical Officer II 1.0 Research Scientist II 0.5 Staff toxicologist \$150K/yr contract funds for software development, training and distribution. Sit visits, field investigation. Students, translators, local communications needs for field studies.</p>	<p>Develop guidelines and procedures for epidemiological and statistical analysis of communities exposed to pesticides (HSC §105210). Develop and maintain software for conducting cost-effective standardized epidemiological field investigations that integrate the pesticide illness and pesticide use reporting systems. Distribute field application software and provide training to 5 local health and agricultural agencies for use of scientific methods and application software (HSC §105210). Consult with 10 county agricultural commissioners (CAC) and the local health officer about the most serious outbreaks of pesticide poisonings and respond to requested assistance with the necessary staff and technical assistance to conduct an epidemiologic investigation (HSC §105210).</p> <p>Conduct 1 epidemiology study per year to assist Local Health Officer (LHO) (HSC §105210). With identified required positions for this mandate, this is a minimal level of effort given the complexity of the task, stakeholder input, and community and public health value. Contract funds are necessary for acquiring epidemiological and biostatistical software, local training, translators, questionnaire development, and local medical team support.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 6 (concluded). Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Community Health Investigations

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
	<p>In 2003, began developing software applications for field study application.</p> <p>Provide toxicological and epidemiological telephone consultations to 3 local health officers and county agriculture commissioners per year.</p>		<p>Tremendous population and housing growth, resulting in expanding agriculture-urban interface, is driving the increasing number of requests for epidemiological support to local agencies and communities. With the identified required positions, OEHHHA will be able to respond to episodes like those that occurred last year in Lamont, San Diego, and Kern counties where large number of community and worker populations were made ill from pesticide releases.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 7. Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Risk Assessment

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.2 Research Scientist Supv. I 1.5 Staff Toxicologist	<p>Typically, peer review 3-4 of DPR's Risk Characterization Documents per year. With of budget and staffing reductions over the last few years, OEHHA has greatly reduced the depth of toxicological analysis and peer review of pesticides being considered for new or modified registration and use.</p> <p>Review 1 Toxic Air Contaminants documents for pesticides per year and produce findings on TACs per year.</p> <p>Review 2 toxicological study data waiver requests from pesticide registrants per year</p> <p>Consult with DPR in prioritizing the array of pesticides that should undergo risk assessment based on established criteria.</p>	1.0 Senior Toxicologist 0.2 Research Scientist Supv. I 3.5 Staff Toxicologist	<p>Historically, DPR completes 3 to 4 RCDs or risk assessments per year. OEHHA has met its mandates to provide critical peer review that is necessary for scientific merit and credibility. This year, DPR stated that they intend to complete 17 risk assessments. With identified requires resources, OEHHA will meet its peer review obligations in a timely manner and will have the capacity to consult on and resolve scientific differences and interpretations of data. (HSC §59004 and FAC §13129).</p> <p>With required resources to meet it scientific mandates, OEHHA, will address large gaps in public health issues and policies, such as cumulative risk from multiple sources, toxicologic criteria for evaluating early in life exposures, gene-environment interactions, and technical assessment of exposure assessment reports of pesticide in water, air, food, and consumer products. Based upon DPR's listing of the 17 risk assessments planned, OEHHA will likely review at least 4 pesticide Toxic Air Contaminants documents and produce technical findings for consideration by Scientific Review Panel and public information. In consultation with DPR, ARB, and the public, prioritize registered pesticides and generate a list of 10 pesticides to undergo risk assessment annually (HSC §59004 and FAC §13129). This level of effort is reasonable to address the backlog of several hundred risk assessments. (FAC §14022-23).</p> <p>Review all pesticide toxicology data waiver requested per year (typically 2 to 10 per year) (FAC §13131.2).</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 8. Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Occupational and Public (Community/Residential) Health and Safety

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.2 Research Scientist Supervisor I 0.5 Staff Toxicologist 0.4 Public Health Medical Officer II 0.1 Public Health Medical Officer III	<p>Review and evaluate the scientific and public health basis for 3 pesticide worker health and safety regulations per year. Exercise joint and mutual responsibilities for the development of occupational regulations relating to pesticides.</p> <p>Evaluate 2 pesticide occupational exposure research proposals per year.</p> <p>Review 2 air monitoring and exposure studies per year.</p>	0.2 Research Scientist Supervisor I 1.5 Staff Toxicologist 0.25 Public Health Medical Officer II	<p>Review and evaluate the scientific and public health basis for 3 pesticide worker health and safety regulations per year. Exercise joint and mutual responsibilities for the development of occupational regulations relating to pesticides, such as for methyl bromide use, farm worker hazard communication standards, respiratory protection, and blood cholinesterase monitoring (FAC §12980).</p> <p>Historically, OEHHA evaluates an average of 8 occupational exposure research proposals per year; the number is determined by registrant research requirements to register new or modify product use (Title 3CCR §6710). Develop standard review criteria for assurance of scientific merit, integrity, and protection of human subjects in research. This level of effort will address the workload necessary to develop bioethical research standards in human testing studies that do not currently exist in Cal/EPA.</p> <p>About 11,000 pesticides products, comprised of over 900 active ingredients are</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 8 (concluded). Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Occupational and Public (Community/Residential) Health and Safety

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
			<p>registered, dozens of which are potential toxic air contaminants, as defined in FAC §14022. DPR consults with OEHHA and ARB for TAC listing determination. Only 2 to 4 pesticides are reviewed and evaluated, but dozens more wait to be considered. With required positions, OEHHA will inform the process on high priority TAC candidates, and thereby meet its minimal mandates.</p> <p>DPR has 90 days after receiving scientific data from OEHHA and ARB to complete their evaluation. With required positions OEHHA will provide data from dozens of toxicological and air monitoring studies conducted each year by ARB, DHS, academia, registrants, and others.</p> <p>Historically, OEHHA conducts up to 2 health-related studies per year and address up to 6 special risk assessment issues per year (HSC 59004). Given the 11,000 registered pesticide products in California with more than 900 individual active ingredients, this level of effort would address the minimal annual public health and safety workload in this area.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 9. Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Medical Supervision and Physician Training

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.2 Research Scientist Supervisor I 0.6 Public Health Medical Officer II 0.4 Public Health Medical Officer III 0.5 Staff Toxicologist	<p>Annually provide detailed medical training to 100 physicians/health professionals on pesticide poisoning-recognition, management, and reporting.</p> <p>Review and update training medical training syllabus and 2 curriculum elements every year.</p> <p>Develop training program announcements and make available on the OEHHA Web page and provide hard copy announcements to 61 local health officers and 4 medical associations each year.</p> <p>Develop and update of the Guidelines for Physicians describing the California Medical Supervision Program every 3 years. This is a reasonable level of effort because of medical advances and change in practice.</p>	0.2 Research Scientist Supervisor I 0.6 Public Health Medical Officer II 0.4 Public Health Medical Officer III 0.5 Staff Toxicologist	<p>Annually provide detailed medical training to 100 physicians on pesticide poisoning recognition, management, and reporting. (HSC §105200-05). Distribute materials via the OEHHA Web page to 500 physicians who report pesticide illnesses. Evaluate cholinesterase monitoring program annually and make recommendations for improvements (FAC §12980), specifically assessing the cost and feasibility of conducting electronic laboratory reporting and standards for blood testing. This is a reasonable level of effort because of need to improve medical management by local health officers and by migrant and rural health providers. These efforts will reduce medical costs to employers, employees, and the public.</p> <p>Review and update training medical syllabus and 2 curriculum elements each year. This is a reasonable level of effort because of continued advances in medical practice, emerging technology for distributing information, and requests to address specific chronic sequelae from pesticide exposures.</p> <p>Develop training program announcements and make available on the OEHHA Web page and provide hard copy announcements to 61 local health officers and 4 medical associations each year. This is a reasonable level of effort to reach rural health clinics, medical managers, ER physicians, poison control centers, nurses, and others. (HSC §105205).</p> <p>Develop and update of the Guidelines for Physicians describing the California Medical Supervision Program every 3 years. (HSC §105205). This is a reasonable level of effort to keep current on medical and laboratory advances and to offer technical guidance opportunity to some 65,000 practicing physicians.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 10. Pesticide and Environmental Toxicology Section: Pesticide Use and Safety: Pesticide Illness Reporting (PIR)

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.3 Research Scientist Supervisor I 0.5 Staff Toxicologist 0.1 Public Health Medical Officer III	<p>Continue to maintain and improve pesticide illness reporting system, including development of new reporting form.</p> <p>Annually review and analyze 1000 to 1800 Pesticide Illness Reporting forms to assess timeliness, quality and completeness. Worked with DHS to include pesticide illnesses into statewide disease reporting system. In 2004 developed system architecture for reporting by a Web-based system, integrating into the field investigation efforts, and interface with the California Poison Control System. Provided DPR consultation for federal grant application for integrating the pesticide use reporting system with the Web illness reporting system.</p> <p>Provided updates on pesticide illness reporting mechanisms to all 62 local health officers and to 58 county agricultural commissioners.</p>	<p>0.3 Research Scientist Supervisor I 0.5 Staff Toxicologist 0.1 Public Health Medical Officer III</p> <p>\$50K/yr contract funds for software development.</p>	<p>Develop 1 regulation for the pesticide illness reporting form, including means for reporting via the Web. Continue to maintain and improve pesticide illness reporting system by providing education and outreach to 62 local health officers, 58 county agriculture commissioners, and 4 medical associations, and 500 physicians (HSC §105200). This is an appropriate resource allocation to assure public health response and prevention of the 1400 pesticide illnesses reported each year. The contract is needed to develop and maintain the statewide software infrastructure for improving the timeliness, completeness, and accuracy of illness reporting. Average occupation time now is greater than 100 days, with resources OEHHA could reduce that to less than one week.</p> <p>Annually review and analyze 1000 to 1800 Pesticide Illness Reporting forms to assess timeliness, quality and completeness. Integrate electronic illness reporting systems to create efficiencies in case management and field investigations. Execute plans for Web-based illness reporting system, field investigations, physician guidance, laboratory reporting, and California Poison Control System participation. (HSC §105200).</p> <p>Train county health and agricultural department staff in all 58 counties (typically, 3 per county). Provide training to 500 priority physicians using new system (HSC §105205).</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 11. Pesticide and Environmental Toxicology Section: Food Safety: Pesticide and Other Chemical Residues

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.5 Staff Toxicologist	<p>Review 2 food consumption survey per year.</p> <p>Identify priority chemicals of concern.</p> <p>Review/evaluate 1 dietary intake level per year.</p> <p>Review components of guidelines for dietary risk assessment.</p> <p>Review with “reference values” databases.</p>	<p>3.0 Staff Toxicologist</p> <p>\$50K contract/yr for collecting data on food and nutrition surveys, time-consuming data summaries with student help.</p>	<p>With the required level of positions and as a necessary element of the pesticide RCD peer review, analyze 3 food consumption surveys per year (HSC §59004 and FAC §13129). For program efficiencies and consistency, apply scientific determinations to 4 fish advisories (Water Code13177.5, HSC 59009) and 2 to 5 PHGs (HSC 116365). Example surveys are: National Health and Nutrition Examination Surveys, Continuing Survey of Food Intakes by Individuals, Food and Nutrition Board. Recommended Dietary Allowances, Continuing Survey of Food Intakes by Individuals and the Diet and Health Knowledge Survey. Analysis focuses chemistry, toxicity, exposed demographics, physical status, and food category of concern.</p> <p>With required positions evaluate up to 5 dietary intake levels per year in support of relative contribution in relation to water, food, and total intake pesticide residues for PHG development (HSC 116365).</p> <p>Develop and maintain database with</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 11 (concluded). Pesticide and Environmental Toxicology Section: Food Safety: Pesticide and Other Chemical Residues

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
			<p>“reference values” for specific sensitive subpopulations. (AB 2342, effective July 2005).</p> <p>To support the above, develop 1-2 components of guidelines for dietary risk assessment, per year. Conduct up to 5 dietary risk assessments per year.</p> <p>From the above, identify/prioritize 5 chemicals of concern per year, and identify/prioritize 5 elements of concern in relation to total exposure per year. HSC §59004</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 12. Pesticide and Environmental Toxicology Section: Food Safety: Fish Contamination

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.5 Senior Toxicologist 1.6 Staff Toxicologist 1.0 Research Scientist II 1.0 Office Assistant	<p>Develop 3 reports describing consumption advisories for up to 6 water bodies per year for fish and wildlife contaminated with chemicals based on review of monitoring data from the Water Boards, federal, and state agencies. Reports utilize updates and reviews of toxicity criteria, epidemiology studies, and exposure analysis from scientific articles (see below).</p> <p>Develop recommendations for 1-2 recurring or special toxicology/environmental/ public health issues/yr (e.g., new studies on mercury in fish, dioxin in oysters) following requests and data from Water Boards, state or local agencies.</p> <p>Review/update toxicological criteria for 1-4 contaminants in fish per year, following the review of 20-200 scientific articles/yr.</p> <p>Develop 3-6 fact sheets/yr for advisories or health effects of specific chemicals found in fish.</p> <p>Respond to 4 or more public inquiries per month on chemicals in fish following release of data by Water Boards, federal, state, and local agencies.</p> <p>Provide technical support to DHS, local agencies and the federal government regarding toxicological basis of 3-6 advisories per year.</p> <p>Develop education and outreach materials and update annually incorporating new information.</p>	0.5 Senior Toxicologist 3.0 Staff Toxicologist 1.0 Research Scientist II 1.0 Office Assistant \$50K/yr contract funds for student assistance in specialty literature searches, data entry, and organizing abstracts/tables/etc.	<p>Develop 4 reports describing consumption advisories for up to 8 water bodies per year for fish and wildlife contaminated with chemicals. This modest increase is necessary to address a backlog of inland and bay water body samplings (8-10 reservoirs, 3 bays, and multiple lakes). Many, if not all are heavily fished and may require advisories to protect subsistence fishers. (Water Code13177.5, HSC 59009)</p> <p>Based on historical requests, develop recommendations for up to 2 recurring or high profile toxicology/environmental/ public health issues/year (new data on PCBs in fish, PBDEs in fish, commercial catch ban) following requests and data from Water Boards, state or local agencies. (HSC 59009 & 59011; F&G 7715, Water Code13177.5).</p> <p>In support of the above, review/update toxicological criteria for 2-5 contaminants (e.g., selenium, PCBs) per year, following the review of 30-300 scientific articles/chemicals/yr. (e.g., PBDEs). (HSC 59009, Water Code13177.5)</p> <p>Develop 4-8 fact sheets/yr for advisories or health effects of specific chemicals in fish. (Water Code13177.5, HSC 59011).</p> <p>Respond to 6 or more public inquiries per month on chemicals in fish following release of data by Water Boards, federal, state, and local agencies. (HSC 59009 & 59011)</p> <p>Provide technical support to DHS, local agencies and the federal government regarding toxicological basis of 4-8 advisories per year. (Water Code13177.5, HSC 59011).</p> <p>Edit and clarify education and local/state outreach materials annually incorporating new information. (HSC 59009 & 59011, Water Code13177.5)</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 13. Pesticide and Environmental Toxicology Section: Water Quality: Surface Waters

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.5 Senior Toxicologist 1.1 Staff Toxicologist 1.0 Research Scientist II	<p>Develop and prepare a health risk assessment of tertiary butyl alcohol (TBA) to recommend risk-based concentrations for TBA discharged into water bodies with different beneficial uses (i.e., concentrations that are protective of either human health or aquatic life).</p> <p>Evaluation of national BAFs and translator methodology to implement a discharge policy.</p> <p>Evaluation of California data to develop California specific BAFs.</p> <p>Review, evaluate, and organize data from 2- 5 reports per year on fish distribution, prevalence and landings, chemistry data, collection results, and fish consumption surveys for use in monitoring planning and risk assessments.</p> <p>Annually enter and evaluate data for 50-100+ samples, multiple species, and up to 90 chemicals and other variables per species-sample combination from Water Board bioaccumulation monitoring programs.</p> <p>Maintain database and plan yearly monitoring.</p>	0.5 Senior Toxicologist 1.1 Staff Toxicologist 1.0 Research Scientist II	<p>Develop and prepare a health risk assessment of one water contaminant to recommend risk-based concentrations for that contaminant discharged into water bodies with different beneficial uses (i.e., concentrations that are protective of either human health or aquatic life). (HSC 59009)</p> <p>Evaluation of tissue concentration predictions based on nation and California BAFs. Evaluation of methylmercury tissue criteria, and other chemicals for protection of human health. (HSC 59009)</p> <p>Review, evaluate, and organize data from 2-5 reports per year on fish distribution, prevalence and landings, chemistry data, collection results, and fish consumption surveys for use in monitoring planning and risk assessments. (HSC 59009, Water Code13177.5)</p> <p>Annually enter and evaluate data for 50-100+ samples, multiple species, and up to 90 chemicals and other variables per species-sample combination from Water Board bioaccumulation monitoring programs. Maintain database and plan yearly monitoring. (HSC 59009, Water Code13177.5)</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 14. Pesticide and Environmental Toxicology Section: Water Quality: Drinking Water

Current Position(s)	Current Output	Required Position(s)	Workload Required by Statute or to Address Backlog
1.0 Senior Toxicologist 5.0 Staff Toxicologist 3.0 Associate Toxicologist 1.0 Office Technician	<p>Develop up to 15 PHGs per year for chemicals in drinking water.</p> <p>Prepare written responses to peer review and public comments on up to 15 PHGs per year.</p> <p>Respond to 1 or more public requests for information/month (phone, email, Public Record Act requests, etc.).</p> <p>Update and revise 1 PHG for the five-year review.</p> <p>Prepare 1 fact sheet per year for a PHG chemical.</p> <p>Provide early-stage technical support and consultation to DHS on criteria development, and review, evaluation and prioritization of grants applications for clean drinking water management projects.</p> <p>Development of PHGs on unregulated chemicals for 1 chemical per year.</p> <p>Assist in the development of Action Levels per year for chemicals in drinking water at the request DHS.</p>	1.0 Senior Toxicologist 7.0 Staff Toxicologist 3.0 Associate Toxicologist 1.0 Office Technician \$150/yr contract funds for specialized technical issues.	<p>Develop up to 20 PHGs per year for chemicals in drinking water. (HSC 116365).</p> <p>Prepare written responses to peer review and public comments on up to 20 PHGs per year. (HSC 116365).</p> <p>Update and revise up to 10 PHGs every five years or as new critical data are obtained. (HSC 116365).</p> <p>Respond to 1 or more public requests for information/month (phone, email, Public Record Act requests, etc.). (HSC 116365).</p> <p>Prepare 1 fact sheet per year for a PHG chemical. (HSC 116365).</p> <p>Provide technical support and consultation to DHS on criteria development, and review, evaluation and prioritization of grants applications for 2-10 clean drinking water management projects/yr. (SB 50).</p> <p>Develop PHGs on unregulated chemicals for 1-2 chemicals/yr, and assist in the development of up to 6 Action Levels per year for chemicals in drinking water at the request DHS (H&SC 59400, 116365).</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 15. Integrated Risk Assessment Section: Site Assessment: Screening Levels

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
	<p>Prepared document detailing the methodology on how soil numbers are developed and developed a list of 54 soil screening numbers for protecting human health (HSC §57008(a) and (b)). Awaiting comments from workshops.</p>	<p>1.0 Staff Toxicologist 1.0 Associate Toxicologist</p>	<p>While the screening numbers have been developed, the required report on the feasibility of establishing screening numbers to protect water quality and ecological resources for each of the chemicals (HSC §57008(b)(2)) could not be completed. Once public comments are received from the three workshops to be held on the screening numbers and the guidance, changes will be needed for the screening numbers (HSC §57008(d)).</p> <p>Requests by the Agency for revisions of screening numbers and for additional screening numbers (HSC §57008(d)) is anticipated because similar lists from the San Francisco Regional Water Board, with about 120 Environmental Screening Levels, and U.S. EPA, Region 9, with about 580 Preliminary Remediation Goals, are under consideration. At this time Agency estimates a minimum five updates and 15 new screening levels per year. This is about the quantity done for the original 54 considering the added work, noted above, not yet completed from the first group of chemicals.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 16. Integrated Risk Assessment Section: Site Assessment: Schools

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
<p>1.0 Senior Toxicologist 1.8 Staff Toxicologist</p>	<p>Developed, published guidance documents for use by Cal/EPA to child-specific assess exposures and health risks at existing and proposed school sites. (HSC §901(f) and (g)).</p> <p>History of this program as of February 2005. Five chemicals have been fully assessed and are finishing external peer review. Two additional chemicals have undergone the first public review and are now awaiting external peer review. Three chemicals are now close to going out for public review for the first time. Two chemicals are in the middle of their assessment and three are at the being of the process. At the end of 2004 there were to be 15 completed assessments , the program has 5 chemicals almost complete and 5 partially complete. It has one half to two thirds the expected output.</p>	<p>1.0 Senior Toxicologist 2.8 Staff Toxicologist</p> <p>\$35K/yr contract funds for developing computer tool (spread sheet) to assist in using the guidance.</p> <p>\$40K/yr contract funds to hire outside consultants and student assistants to assist in the update of the compilation of chemicals.</p> <p>\$200K/yr contract funds to hire outside consultants and student assistants to assist in the literature search and review and criteria development</p> <p>\$112K/yr contract funds to assist in obtaining valid exposure parameters for children.</p>	<p>Supervise the Schools Project including developing work plans, overseeing technical work production.</p> <p>Identify up to 5 chemical contaminants per year that are commonly found at school sites and determined to be of greatest concern based on the child-specific criteria, and develop 5 child-specific toxicity criteria per year to be used with the risk assessment guidance based on a prioritization process (HSC §901(g)). Experience has shown that the program can produce about 3 criteria per year at the current resource level and needs additional resources to meet the required 5 per year due to the unexpected difficulty of finding and assessing child-specific toxicity data.</p> <p>Maintain and update guidance documents for use by Cal/EPA for child-specific assessment of exposures and health risks at existing and proposed school sites (HSC §901(f)). There are many data gaps and uncertainties in the guidance that need to be refined with this work to complete the guidance. This includes child-specific exposure parameters that change based on growth and development and how best to incorporate development stage toxicity into long-term exposure scenarios.</p> <p>Identify and address 1-3 data gaps and uncertainties per year in need for outside scientific expertise in the area of child activity patterns and physiological parameters. Contract for external services to address issues (HSC §901(f) and (g)). This is needed to help supply the data necessary for criteria development.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 17. Integrated Risk Assessment Section: Consumer Products: Fuels			
Current Position(s)	Current Output	Required Position(s)	Workload Required by Statute or to Address Backlog
1.0 Senior Toxicologist 2.0 Staff Toxicologist 1.0 Associate Toxicologist 1.0 Research Scientist I 1.0 Hazardous Substance Scientist 1.0 Assoc. Govt'l Prog. Analyst	<p>Developing, identifying, compiling, and evaluating data for the development of a multimedia evaluation process for fuel specification regulations to determine adverse impact on public health or environment. Maintain and update guidance as needed (HSC §43830.8).</p> <p>Develop guidance, evaluate data submissions, and evaluate proposed new fuel specification regulations' impact on public health or environment via all environmental pathways, including air, water, and soil.</p> <p>Prepare 1/yr reviews summarizing the analysis framework addressing human exposure from primary and secondary pathways from multiple releases of contaminants associated with production, use, recycling, and disposal of motor vehicle fuels.</p> <p>Investigate the potential health impacts from the use of used motor oil in bunker fuel to power ships in harbor and electrical generators. Evaluate the volume and geographical locations of motor oil/bunker fuel mixture used in the state. Model the extent of exposure. Analyze health risks relative to only the use of bunker fuel. Further evaluation of other uses of recycled oil.</p>	1.0 Senior Toxicologist 2.0 Staff Toxicologist 1.0 Associate Toxicologist 1.0 Research Scientist I 1.0 Hazardous Substance Scientist 1.0 Assoc. Govt'l Prog. Analyst \$25K/yr contract funds to provide consultant and student assistance in the acquisition, review and summary of literature for usability in the guidance and to help identify data gaps. \$50K/yr contract funds for consultants to assist in the review of the data based on the need for specialized expertise.	<p>Develop, identify, compile, and evaluate data for the development of a multimedia evaluation process for fuel specification regulations to determine adverse impact on public health or environment. Maintain and update guidance as needed (HSC §43830.8).</p> <p>Develop guidance, evaluate data submissions, and evaluate proposed new fuel specification regulations' impact on public health or environment via all environmental pathways, including air, water, and soil (HSC §43830.8).</p> <p>Prepare 1-3 reviews/yr summarizing the analysis framework addressing human exposure from primary and secondary pathways from multiple releases of contaminants associated with production, use, recycling, and disposal of motor vehicle fuels (HSC §43830.8).</p> <p>IWMB is seeking a safe market for over 88.4 million gallons of recycled oil per year. Investigate the potential health impacts from the use of used motor oil in bunker fuel to power ships in harbor and electrical generators. Evaluate the volume and geographical locations of motor oil/bunker fuel mixture used in the state. Model the extent of exposure. Analyze health risks relative to only the use of bunker fuel. Further evaluation of other uses of recycled oil.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 18. Integrated Risk Assessment Section: Site Assessment: General

Current Position(s)	Current Output	Required Position(s)	Workload Required by Statute or to Address Backlog
2.0 Staff Toxicologist	<p>Review and evaluate site-specific health risk assessments from past, current, or future exposure to on-site workers, residents on or near sites of contamination, or possible future occupants of areas where contaminants may have migrated based on data supplied in site characterization and/or remedial action plans; and prepares comments and/or recommendations. (Water Code §13395.5)</p> <p>Provide toxicological and technical assistance to assist regional water quality control boards and regional integrated waste management boards in the area of human health site risk assessment criteria and methodology (Water Code §13395.5).</p>	2.0 Staff Toxicologist	<p>Review and evaluate site-specific health risk assessments from past, current, or future exposure to on-site workers, residents on or near sites of contamination, or possible future occupants of areas where contaminants may have migrated based on data supplied in site characterization and/or remedial action plans; and prepares comments and/or recommendations. (Water Code §13395.5)</p> <p>Provide toxicological and technical assistance to assist regional water quality control boards and regional integrated waste management boards in the area of human health site risk assessment criteria and methodology (Water Code §13395.5).</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 19. Border Coordination

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Staff Toxicologist	<p>Develop and conduct 1-3 bilingual (English/Spanish) trainings or workshops/yr in toxicology, risk assessment, and other applications in response to environmental and human health issues relating to pollution near the California/Mexico border (HSC §71100).</p> <p>Assist Cal/EPA's Border Coordinator in general activities to promote scientific and technological environmental health capabilities and resources for the populations at the CA/Mexico border.</p>	1.0 Staff Toxicologist	<p>Develop and conduct 1-3 bilingual (English/Spanish) trainings or workshops/yr in toxicology, risk assessment, and other applications in response to environmental and human health issues relating to pollution near the California/Mexico border (HSC §71100).</p> <p>Assist Cal/EPA's Border Coordinator in general activities to promote scientific and technological environmental health capabilities and resources for the populations at the CA/Mexico border.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 20. Integrated Risk Assessment Section: Consumer Products: Art Products

Current Position(s)	Workload	Required Position(s)	Output Required by Statute or to Address Backlog
	<p>Biannually revise art and crafts list of materials that cannot be used in grades K-6 and provide list to the Department of Education based on changes to the Arts and Creative Materials Institute's listings.</p>	<p>1.0 Staff Toxicologist 1.0 Associate Toxicologist 1.0 Staff Services Analyst</p> <p>\$100K/yr contract funds for UC laboratory research on exposure routes and uptake of powers, liquids and aerosols specific to art and craft materials.</p>	<p>Annually review, research and revise art and crafts list of materials that cannot be used in grades K-6 and provide list to the Department of Education. (Education Code §32064(a) and 32066)</p> <p>Prepare a semiannual update of art and craft products that may be purchased for use in California schools (Education Code §32066). This is a reasonable level of effort because of the amount of “new and improved” products that appear during the year.</p> <p>Review submission information on 100-200 products per year and certify appropriate products. (Education Code §32064 and 32066)</p> <p>Through in-house literature review and out side research studies develop better ways to assess childhood exposure to art and craft materials used in schools. (Education Code §32064(c))</p> <p>Manage and track confidential and proprietary documents submitted for review in the Art Hazards Program by technical staff. (Education Code §32065(g))</p> <p>If allowed, account for fee submissions and reviews done on art products. Develop and maintain analytical tools to ensure program fees are used effectively and efficiently.</p> <p>The legislative mandate for this program does not specify a required level of effort for this program. It does require the program to identify hazardous art and craft materials, which requires product ingredient review. There are thousands of products available and new ones appear every year, and old ones are removed. OEHHA has proposed a modest program it feels will be able to meet the ongoing needs of the mandate.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 21. Emerging Scientific/Chemical Issues: Environmental Protection Indicators for California

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
	<p>Maintain and update the environmental indicator system. Updates released by February 2005</p> <p>Provide technical support to Agency efforts to integrate environmental indicators into planning/management processes.</p>	<p>1.0 Research Scientist Supervisor I</p> <p>1.0 Research Scientist I</p> <p>1.0 Associate Governmental Program Analyst</p> <p>\$525K/yr contracts (8 IAA with other Cal/EPA BDOs, DHS, Resources Agency).</p> <p>\$225/yr contract for consulting services.</p>	<p>Continuous improvement and maintenance of EPIC indicator system and database. It is expected that about 40-50 existing indicators will be updated every two years, and 80-100 new indicators considered per year for inclusion in the indicator system to address additional issues, or to present more specific (e.g., regional) information. Improvements to the indicator system will be based on reviews of indicators and concepts from 20-24 indicator systems maintained by regional entities, other states, the federal government, international bodies and research organizations. These tasks will require coordination with Cal/EPA BDOs and other State agencies. (Public Resources Code §71081).</p> <p>Technical support to Cal/EPA in developing and implementing mechanisms for integrating environmental indicators in decision-making (Public Resources Code §71081)</p> <p>Preparation of biannual report and about 6-10 issue-, indicator- or audience-specific supplemental reports per year. (Public Resources Code §71081).</p> <p>Support to interagency workgroup and scientific review panel, both of which are expected to meet 2-4 times/yr (Public</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 21 (concluded). Emerging Scientific/Chemical Issues: Environmental Protection Indicators for California

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
			<p>Resources Code §71081)</p> <p>The legislative mandate does not specify the level of effort required for this program. OEHHA presumes that the Legislature has left the decision to the program. Therefore, based on prior experience with the program, OEHHA is proposing the minimum needed to have an ongoing environmental indicator program for Cal/EPA (with the Resources Agency) that provides the coordination, information, and assessment of California's environment.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 22. Reproductive and Cancer Hazard Assessment Section: Cancer Hazard Identification

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.4 Senior Toxicologist 2.0 Staff Toxicologist 0.25 Research Scientist III 1.0 Associate Toxicologist 0.5 Research Scientist II 1.0 Office Assistant	<p>Annually prioritize 12 chemicals for review by the State's Qualified Experts (SQE). (HSC 25249.8; Title 22, Cal. Code of Regs. §12302). Develop hazard identification packages on two potential carcinogens annually for consideration by the states qualified experts for listing. Testify on packages and science underlying hazard identification on two chemicals at formal public meetings states qualified experts for listing (HSC 25249.8; Title 22, Cal. Code of Regs. §12302).</p> <p>Review technical reports of authoritative bodies and warnings and labels required by state and federal agencies, identify up to 5 cancer causing chemicals and update the list annually as required by law (HSC 25249.8; Title 22, Cal. Code of Regs. §12306; Western Crop v. Davis court opinion).</p>	0.5 Senior Toxicologist 2.0 Staff Toxicologists 1.0 Associate Toxicologist 1.0 Research Scientist II 1.0 Office Technician 1.0 Office Assistant \$125K/yr contract funds for evaluating exposure and toxicological data for prioritizing chemicals, and conducting literature searches for hazard identification documents.	<p>The prioritization process for selecting chemicals for State Qualified Expert (SQE) consideration has changed. Annually screen 400 backlogged chemicals and bring 8-15 chemicals to carcinogen committee for possible listing. Develop hazard identification package and testify on packages and science underlying hazard identification on three chemicals at formal public meetings of the SQE (HSC. 25249.8; Title 22, Cal. Code of Regs (CCR) §12302).</p> <p>Review technical reports of the authoritative bodies and warnings and labels required by state and federal agencies. In regulation there are five authoritative bodies (Title 22, CCR §12306), who annually collectively generate 10-20 candidates for Prop. 65 cancer listing per year. Of these, identify up to 8 cancer causing chemicals and update the list annually as required by law (HSC 25249.8; Title 22, CCR §12306); Western Crop v. Davis court opinion). This is to maintain the current backlog of</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 22 (concluded). Reproductive and Cancer Hazard Assessment Section: Cancer Hazard Identification

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
			approximately 20. Settlement in two court cases found the State was not meeting mandate for implementing authoritative bodies listing provision.

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 23. Reproductive and Cancer Hazard Assessment Section: Development of Cancer Regulatory Numbers and Technical Support to the Attorney General

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.4 Senior Toxicologist 1.0 Staff Toxicologist 1.0 Biostatistician IV 0.5 Research Scientist II	<p>Conduct dose response analyses and prepare no significant risk levels (NSRLs), proposing 8 NRSL regulations annually. Address public comments, prepare final statement of reasons for OAL and adopt in final regulation eight NSRLs annually under the authority of HSC 25249.5 et seq.; Title 22, Cal. Code of Regs. §12705.</p> <p>Prioritize chemicals for NSRL development and routinely update, release and post on the web documentation of prioritizations and draft and adopt numbers (AFL CIO et al. v. Deukmejian; Title 22, Cal. Code of Regs. §12705).</p> <p>Provide technical support to Attorney General (HSC 25249.7) on two enforcement cases on exposures to Proposition 65 carcinogens annually. We are unable to address all requests for technical support from the Attorney General, requiring that office to utilize outside expertise that is often unfamiliar with OEHHA's policy and procedures.</p>	<p>0.25 Senior Toxicologist 2.0 Staff Toxicologist 1.0 Biostatistician IV 0.5 Associate Toxicologist 0.5 Research Scientist II 1.0 Senior Environmental Research Scientist Specialist</p> <p>\$75K/yr contract funds for pharmacokinetic and biologically based modeling.</p>	<p>There is a backlog of 250 chemicals on Proposition 65 cancer list without NSRLs, with 3-10 carcinogens being added annually. As dictated by a 1992 court settlement agreement (AFL CIO v Duke), OEHHA must prioritize chemicals for NSRL development and routinely update, release and post on the web documentation of prioritizations. Conduct dose response analyses and prepare no significant risk levels (NSRLs), proposing up to 12 NRSL regulations annually. Address public comments, prepare final statement of reasons for OAL and adopt in final regulation eight NSRLs annually under the authority of HSC 25249.5 et seq.; Title 22, Cal. Code of Regs. §12705.</p> <p>Court cases affect policy and workload procedure changes. Provide technical support to Attorney General on four enforcement cases on exposures to Proposition 65 carcinogens annually, and meet all other requests by the AG for technical assistance (HSC 25249.7). This will allow us to keep current with requests from the Attorney General's office.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 24. Reproductive and Cancer Hazard Assessment Section: Cancer Safe Use Determinations and other Cancer Analyses for Proposition 65 and Other OEHHA Programs

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.2 Senior Toxicologist 1.0 Assoc. Toxicologist 0.25 Research Scientist II	<p>Evaluate 1-2 Safe Use Determination request per year for carcinogens and conduct the SUD (Title 22, Cal. Code of Regs. §12204).</p> <p>Evaluate at most one submission for interpretive guidelines per year for carcinogens. (Title 22, Cal. Code of Regs. 12203).</p> <p>Evaluate at most one petition from the public on a Proposition 65 carcinogen issue. (HSC 25249.5 et seq.)</p>	0.25 Senior Toxicologist 1.5 Staff Toxicologist 0.5 Assoc. Toxicologist 0.5 Research Scientist II	<p>By regulation OEHHA must evaluate requests for Safe Use Determinations (SUDs), which are technical assistance to industry and that also furthers interpretations of Prop. 65. Requests for SUDs are increasing due to a change in the regulation, with 2-4 requests for SUDs annually for carcinogens (Title 22, Cal. Code of Regs. §12204).</p> <p>Evaluate up to two submissions for interpretive guidelines per year for carcinogens. (Title 22, Cal. Code of Regs. 12203).</p> <p>Evaluate up to two petitions for regulatory action on a Proposition 65 carcinogen issue. (HSC 25249.5 et seq.).</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 25. Reproductive and Cancer Hazard Assessment Section: Reproductive and Developmental Toxicity Hazard Identification

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.5 Senior Toxicologist 2.0 Staff Toxicologists 1.0 Associate Toxicologist 1.0 Office Technicians	<p>In the past 5 years due to resource constraints and competing priorities we have not been able to prioritize chemicals for the state's qualified experts (SQE) review. (HSC 25249.8; Title 22, Cal. Code of Regs. §12302).</p> <p>Identify and document the health effects annually for two candidate chemicals for listing for consideration by the states qualified experts. (HSC 25249.8; Title 22, Cal. Code of Regs. §12302).</p> <p>Review technical reports of authoritative bodies and warnings and labels required by state and federal agencies, identify 2-5 reproductive hazard chemicals and update the list annually as required by law (HSC 25249.8; Title 22, Cal. Code of Regs. §12306; Western Crop v. Davis court opinion).</p>	0.5 Senior Toxicologist 2.0 Staff Toxicologists 1.0 Associate Toxicologist 0.25 Biostatistician IV 0.5 Research Scientist III 1.0 Research Scientist II \$125K/yr contract funds for evaluating exposure and toxicological data for prioritizing chemicals, and conducting literature searches for hazard identification documents.	<p>The prioritization process for selecting chemicals for SQE consideration has changed. Annually screen 300 backlogged chemicals and bring 5-15 chemicals to DART committee for possible listing. Develop hazard identification package and testify on packages and science underlying hazard identification on three chemicals at formal public meetings of the DART State Qualified Expert (HSC 25249.8; Title 22, Cal. Code of Regs. §12302).</p> <p>Review technical reports of authoritative bodies and warnings and labels required by state and federal agencies. In regulation there are five authoritative bodies (Title 22, Cal. Code of Regs. §12306), who annually collectively generate 8-20 candidates for Proposition 65 DART listing per year. Of these, identify up to 8 cancer causing chemicals and update the list annually as required by law (HSC 25249.8; Title 22, Cal. Code of Regs. §12306; Western Crop v. Davis). This is to maintain the current</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 25 (concluded). Reproductive and Cancer Hazard Assessment Section: Reproductive and Developmental Toxicity Hazard Identification

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
			backlog of approximately 20. Settlement in two court cases found the State not meeting mandate for implementing authoritative bodies provision.

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 26. Reproductive and Cancer Hazard Assessment Section: Development of Reproductive Toxicity Regulatory Numbers and Technical Support to the Attorney General

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.25 Senior Toxicologist 1.0 Staff Toxicologist 0.25 Research Scientist III	<p>Prepare up to five Maximum Allowable Dose Levels (“safe harbors” or MADLs), for listed reproductive hazards and adopt appropriate regulations by preparing and submitting to OAL initial and final statement of reasons on 5 MADLs per year. (HSC 25249.10(c)); Deukmejian v. AFL CIO et al.; Title 22, Cal. Code of Regs. §12805).</p> <p>Prioritize chemicals for MADL development and routinely update, release and post on the web documentation of prioritizations and draft and adopted numbers (AFL CIO et al. v. Deukmejian; Title 22, Cal. Code of Regs. §12805).</p> <p>Provide technical support to Attorney General on two enforcement cases on exposures to Proposition 65 reproductive toxins annually (HSC 25249.7). We are unable to address most requests for technical support from the Attorney General, requiring that office to utilize outside expertise that are often unfamiliar with OEHHA policy and procedure.</p>	0.25 Senior Toxicologist 1.5 Staff Toxicologist 0.5 Biostatistician IV 0.25 Research Scientist III \$75K/yr contract funds for dose response analysis and literature searches to support such analyses	<p>Prioritize chemicals for MADL development and routinely update, release and post on the web documentation of prioritizations and draft and adopt numbers (Title 22, Cal. Code of Regs. §12805).</p> <p>Out of a backlog of ~250 chemicals on the DART Proposition 65 list, annually prepare up to 10 MADLs (HSC 25249.10(c)).</p> <p>Court cases affect policy and workload procedure changes. Provide technical support to Attorney General (HSC 25249.7) on four enforcement cases on exposures to Proposition 65 reproductive toxins annually, and meet other requests by the AG for technical assistance</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 27. Reproductive and Cancer Hazard Assessment Section: Reproductive Toxicity Safe Use Determinations and other Reproductive Toxicity Analyses for Proposition 65 and Other OEHHA Programs

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
0.25 Senior Toxicologist 0.5 Staff Toxicologist 0.25 Research Scientist III	Evaluate one Safe Use Determination request per year for reproductive toxins (Title 22, Cal. Code of Regs. §12204). Evaluate up to one submission for interpretive guidelines per year for reproductive toxins. (Title 22, Cal. Code of Regs. 12203). Evaluate up to one other requests for work product on Proposition 65 reproductive toxin issues. (HSC 25249.5 et seq.)	0.25 Senior Toxicologist 1.0 Staff Toxicologist 0.25 Biostatistician IV 0.25 Research Scientist III	Evaluate up to three Safe Use Determination (SUD) request per year for reproductive toxins (Title 22, Cal. Code of Regs. §12204). SUDs are technical assistance to industry that also furthers the interpretations of Prop. 65. This level of effort is based upon increased number of requests since the regulation was changed. Evaluate one submission for interpretive guidelines per year for reproductive toxins. (Title 22, Cal. Code of Regs. 12203). Evaluate up to one other request for regulatory action on Proposition 65 reproductive toxin issues. (HSC 25249.5 et seq.)

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 28. Emerging Scientific/Chemical Issues: Gasoline-Associated Air Pollution: Characterization of Cancer and Non-Cancer Health Effects

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Research Scientist Supv. I	<p>Prepare and submit report every 5 to 6 years characterizing the impact of cancer and non-cancer hazards from gasoline associated air pollutants based upon year-specific air monitoring data.</p> <p>This level of effort is insufficient to provide data to assist in the development of a new fuel regulation. We may not be able to complete this project due to insufficient expertise.</p>	<p>1.0 Senior Toxicologist 1.0 Research Scientist Supervisor I 2.0 Staff Toxicologists 1.0 Research Scientist II</p> <p>\$179K/yr contract funds for identifying additional atmospheric transformation products of gasoline exhaust and emissions, for estimating gasoline-attributable concentrations of atmospheric transformation products, and for evaluating exposure and toxicological data on air pollutants associated with gasoline use especially those with the potential for a differential impact on children.</p>	<p>Every two years, prepare and submit reports characterizing the impact of cancer and non-cancer hazards from gasoline associated air pollutants based upon year-specific air monitoring data. (HSC 43830.8 (b)).</p> <p>The ARB will likely be requesting OEHHA to evaluate 6 fuel additives or minor reformulations per year, and one major reformulation per year, which will require a more intensive analysis. Reasonable level of effort would be to conduct one study every 2-3 years in order to complete 1 to 2 studies on an existing vehicle fuel prior to adoption of a new fuel regulation, and to document the success of the Governor's Action Plan proposal.</p>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 29. Reproductive and Cancer Hazard Assessment Section: Children's Cancer Guidelines and Assessment

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
1.0 Staff Toxicologist	Unable to develop cancer assessment guidelines by mandated deadline of July 2004, that assesses risk from childhood exposure and revise cancer risk assessment guidelines to be more protective of the fetus, infant, and child.	2.0 Staff Toxicologists 1.0 Biostatistician IV 1.0 Research Scientist III 1.0 Public Health Medical Officer II \$400K/yr contract funds conducting workshops, expanding the data base, developing regulatory levels protection of infants and children	Develop, by July 2004, cancer assessment guidelines assessing risk from childhood exposure and revise cancer risk assessment guidelines to be more protective of the fetus, infant, and child; periodically update the guidance as science advances (HSC 901) Screen and prioritize the approximately 250 cancer potencies currently in regulation to determine those that do not adequately account for greater fetal, infant and childhood sensitivity (HSC 901). Annually, revise the potency on the 15 highest priority chemicals. .

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Office of Environmental Health Hazard Assessment
WORKLOAD OUTPUT

Table 30. External Affairs: Proposition 65 Implementation

Current Position(s)	Current Output	Required Position(s)	Output Required by Statute or to Address Backlog
<p>1.0 Senior Hazardous Substances Scientist</p> <p>1.0 Associate Governmental Program Analyst</p>	<p>Schedule and provide administrative support for SAB meetings, and for public hearings, workshops, and forums.</p> <p>Draft and submit legal notices announcing public comment periods, chemical listings and other developments of interest to the public.</p> <p>Receive, compile, maintain and distribute copies of public comments received on specific Proposition 65 matters.</p> <p>Promulgate regulations that further the purpose of Prop 65. Staff the Proposition 65 telephone number and respond to public and stakeholder inquiries.</p> <p>Provide program support and coordination between RCHAS, OEHHA counsel and the Executive Office.</p> <p>Maintain and update records on chemicals listed, considered for listing, or prioritized for consideration of listing.</p>	<p>1.0 Senior Hazardous Substances Scientist</p> <p>1.0 Associate Governmental Program Analyst</p>	<p>Reserve and set up meeting rooms and arrange for court reporting services for approximately 10 public meetings/yr.</p> <p>Draft 25-50 legal notices per year for publication in the California Regulatory Notice Registry and posting on OEHHA's Web site.</p> <p>Receive, file and disseminate comment letters and attachments covering several dozen chemicals and totaling several thousand pages over a one-year period.</p> <p>Draft regulatory language, Statements of Reasons and related regulatory documents for 1-3 regulatory packages/yr.</p> <p>Handle approximately 3,800 phone calls/yr from the general public and stakeholders.</p> <p>Set up and attend approximately 24 meetings/yr to report developments to, and receive input and direction from, RCHAS, OEHHA counsel and the Executive Office.</p> <p>Continuously maintain files and develop electronic database for 750 listed chemicals and several hundred additional chemicals that are potential candidates for listing.</p>